

F.Y.B.SC. SEM – II (2014 Course) : WINTER - 2018
SUBJECT: Microbiology: Microbial Nutrition, Growth & Control

Day : Friday
Date : 12/10/2018

Time: 03.00 PM TO 05.00 PM
Max Marks: 40

W-2018-0786

N.B

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw neat labeled diagrams **WHEREVER** necessary.
-

- Q.1** Attempt any **TWO** of the following: **(10)**
- a) Explain binary fission
 - b) Describe enriched media
 - c) How are microbes grouped based on their oxygen requirement?
- Q.2** Attempt any **TWO** of the following: **(10)**
- a) What are simple media?
 - b) What are mesophiles?
 - c) Write in short on spread plate method as an isolation/enumeration technique.
- Q.3** Attempt any **TWO** of the following: **(10)**
- a) Name the micronutrients and give their role in microbial nutrition.
 - b) Give the use of halogen compounds in controlling microbial growth
 - c) Differentiate between selective and differential media.
- Q.4** Write in short on/define/Explain any **FIVE** of the following: **(10)**
- a) Transport media
 - b) Generation time
 - c) Psychrophiles
 - d) Acidophiles
 - e) Fungicide
 - f) Cryopreservation
 - g) Chemoheterotrophs

* * *